Manitoba

Health
Health and Healthy Living
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Dear Colleague,

Please find attached the Summary of Communicable Diseases for the month of April 2008. This information includes the number of reported cases of notifiable communicable diseases for which individuals in Manitoba tested positive* on laboratory samples and/or clinical reports, during the month of April 2008.

Communicable Diseases (non STI-BBPs)

In total, there were **386** new infections occurring across 21 communicable diseases** (excluding sexually transmitted infections and HIV) in April 2008. The observed numbers of cases were within the statistically expected range for all of the reported communicable diseases with the exception of the following diseases:

- Diphtheria Carriers (positive Diphtheria samples from external sites) – 2 cases reported, 0 cases expected
- MRSA – 175 cases reported, 0 – 162 cases expected
- Typhoid Fever – 1 case reported, 0 cases expected

The expected number of cases and accompanying range is based on the statistical number of cases during March, April and May, 2003-2008.

MRSA positive results within Manitoba include both individuals who are symptomatic of infection and colonized individuals, who have no symptoms and are found with admission screening activities at facilities. If facilities increase their screening activities, it would result in a rise in colonized MRSA cases. Together MRSA and *Clostridium difficile* accounted for 66% of all non-STI/HIV related communicable diseases reported to Manitoba Health and Healthy Living. *C. difficile* cases tended to be concentrated in the 60+ age group, while cases of MRSA were reported in all age groups.

Sexually Transmitted Infections & Blood-Borne Pathogens

There were **710** cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in April:

- 551 cases of chlamydia (Ct)
- 95 cases of gonorrhoea (GC)
- 62 co-infections of Ct and GC and
- 2 cases of syphilis

Forty-four percent of all GC and Ct cases in the province were reported among females of age group 15-24 years. 51% all Ct cases were reported for individuals living in the Winnipeg Health Region and an additional 21% were from the Burntwood Health Region.

In April, 32 individuals tested positive for Hepatitis C virus (HCV) in Manitoba. Ten Manitobans tested positive for HIV in April. A new case of HIV infection is defined as a positive test with a unique code that has not been previously associated with a positive test result in Manitoba. Positive tests included in this month's statistics include both nominal and non-nominal testing results. If HIV case investigation forms identify previous positive results with the appropriate nominal or non-nominal information, duplicate counting can be reduced. The HIV cases reported in April were both male and female, between 15 and 59 years of age.

***Note**: Data for the monthly summary are aggregated based on the earliest of: symptom onset date, specimen collection date, or report date. For the majority of cases, the date used will be the specimen collection date.

****Note**: The following communicable diseases are reportable to the Director of Communicable Disease Control for surveillance purposes and are not referred out for public health follow-up:

- Ascariasis (ICD9: 127.0)
- Leishmaniasis – unspecified (ICD9: 085.9)
- Methicillin or vancomycin resistant *Staphylococcus aureus* (MRSA/VRSA) (ICD9 B95.6)
- Schistosomiasis (ICD9: 120)
- *Streptococcus pneumoniae* – other site (ICD9: 041.2)
- *Strongyloides* (ICD9: 127.2)
- Vancomycin resistant enterococci (VRE) (ICD9 B96.8)

The following communicable diseases are reportable to the Director of Communicable Disease Control for surveillance purposes and are referred out to public health for information only:

- Viral Meningitis – CoxSackie
- Viral Meningitis – Echo
- Viral Meningitis – Entero
- Viral Meningitis – H. simplex (Epstein Barr, CSF only)

All other diseases are referred out for further public health follow-up and investigation

Please feel free to contact me should you have any questions about this report.
Thank you.

Sincerely,

Myrna Dyck BN, MSc
Epidemiologist, Communicable Diseases
Public Health Surveillance System
Manitoba Health and Healthy Living

SUMMARY OF COMMUNICABLE DISEASE FOR April 2008

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2007	2008	Expected*	Ex. Range**	2007	2008
006.9	AMEBIASIS	10	3	3	0-8	20	11
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-0		
005.8	B. CEREUS	1		0	0-1	1	
320.0	BAC. MENINGITIS - HAEM			0	0-0		
320.1	BAC. MENINGITIS - PNEUM			0	0-1	1	
320.7	BAC.MENINGITIS-LISTERIA				***		
116.0	BLASTOMYCOSIS	1	1		***	9	3
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-0		
005.2	C. PERFRINGENS			0	0-2	1	
008.43	CAMPYLOBACTER	12	12	16	2-30	54	56
558.2	CLOSTRIDIUM DIFFICILE	81	80		***	395	295
046.1	CREUTZFELD-JACOB DISEASE				***		
007.8	CRYPTOSPORIDIOSIS	2		2	0-5	9	4
061.0	DENGUE FEVER			0	0-1	1	1
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS		2	0	0-0		2
032	DIPHTHERIA CASES			0	0-0		1
123.4	DIPHYLLOBOTHRIUM SPP			0	0-1	1	1
008.0	E. COLI-VEROTOXIGENIC	2	4	4	0-10	7	10
054.3	ENCEPHALITIS			0	0-0		
005.9	FOOD POISONING OTHER			0	0-0		
007.1	GIARDIA LAMBLIA	5	5	9	4-14	31	26
041.5	H.I.B.-NON MTGS			0	0-2		1
041.59	HAEM. INFLUENZAE (non-B)		1		***	4	5
480.8	HANTA VIRUS	1		0	0-1	1	
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-1	1	
070.1	HEPATITIS A	1	2	2	0-10	5	5
070.3	HEPATITIS B	1	1	1	0-2	2	3
070.51	HEPATITIS C	25	32	35	16-54	112	126
487.1A	INFLUENZA A	3	6		***	70	78
487.1B	INFLUENZA B		10		***	1	38
482.83	LEGIONELLA			0	0-1		
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-1		
027.0	LISTERIA MONOCYTOGENES			0	0-1		2
088.81	LYME DISEASE			0	0-0		
084	MALARIA	1		1	0-4	2	4
055.9	MEASLES			0	0-1		
036.0	MENINGOCOCCAL CSF			0	0-1	3	1
036.82	MENINGOCOCCAL ARTHROPATHY				***		
036.2	MENINGOCOCCEMIA BLOOD			0	0-1		2
B95.6	MRSA	149	175	81	0-162	604	674
072.9	MUMPS			0	0-2		
036.89	N.MENINGITIDIS OTHER			0	0-1		2
728.86	NECROTIZING FASCIITIS	1		0	0-1	1	2
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-1		
033.1	PARAPERTUSSIS				***		
033.0	PERTUSSIS	1		2	0-7	4	7
038.2	PNEUM. SEPTICEMIA	5	12	8	1-15	33	44
073.9	PSITTACOSIS			0	0-0		
083.0	Q FEVER			0	0-1		1

* Mean of 15 month totals, from previous, comparable and subsequent months for the past 5 years

** Mean +/- 2 standard deviations of mean

*** Data collected for less than 5 years.

		MONTHLY TOTAL				YEAR-TO-DATE	
ICD9	DISEASE/INFECTION	2007	2008	Expected*	Ex. Range**	2007	2008
056.9	RUBELLA	2		0	0-1	2	
771.0	RUBELLA CONGENTIAL			0	0-0		
041.2	S.PNEUM.OTHER			1	0-4	1	
003.0	SALMONELLA	20	19	14	5-23	90	87
120	SCHISTOSOMIASIS			0	0-0		
004	SHIGELLOSIS	4	1	1	0-3	7	9
050.9	SMALLPOX				***		
005.0	STAPH FOOD POISON			0	0-0		
785.5	STAPH TOXIC SHOCK				***	1	2
481.9	STREP PNEUMONIA - PR			0	0-0		
711.0	STREP.PNEUM.ARTHRITIS			0	0-1		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK			0	0-1		
481	STREPTOCOCCUS PNEUMONIAE			1	0-3	1	2
127.2	STRONGYLOIDES		1	1	0-5	6	1
037	TETANUS			0	0-0		
130.9	TOXOPLASMOSIS			0	0-1		
124	TRICHINOSIS			0	0-0		
086	TRYPANOSOMA CRUZI			0	0-0		
013	TUBERCULOSIS - NON-RESP.	3	2	2	0-5	8	7
011	TUBERCULOSIS - RESP.	8	7	9	7-11	30	27
010	TUBERCULOSIS-PRIM.	1		2	0-8	2	
021.9	TULAREMIA			0	0-1		
002.0	TYPHOID		1	0	0-0		1
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOC.	3	9		***	18	25
005.4	VIBRIO PARAHAEMOLYTICUS				***		
070.59	VIRAL HEP. OTHER				***		
B95.7	VRSA			0	0-0		
062.1	W. EQUINE ENCEPHALITIS			0	0-0		
196	WNV ASYMPTOMATIC INFECTION				***		
198	WNV NEUROLOGICAL SYNDROME				***		
197	WNV NON-NEUROLOGICAL SYND				***		
066.3	WNV UNCLASSIFIED				***		
008.44	YERSINIA ENTEROCOLITICA	1		1	0-3	6	
		344	**386**			**1545**	**1566**

* Mean of 15 month totals, from previous, comparable and subsequent months for the past 5 years

** Mean +/- 2 standard deviations of mean

*** Data collected for less than 5 years.

SUMMARY OF COMMUNICABLE DISEASE BY AGE AND GENDER FOR April 2008

		<1		1 - 4		5 - 9		10 - 14		15 - 19		20 - 24		25 - 29		30 - 39		40 - 49		50 - 59		60 - 69		70 - 79		80 +		Missing	Total
ICD9	Disease Name	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	age/gendr	
006.9	AMEBIASIS															1	1			1									3
116.0	BLASTOMYCOSIS																1												1
008.43	CAMPYLOBACTER					1				1	1		1		2	1	2	1			1			1					12
558.2	CLOSTRIDIUM DIFFICILE	1	1							1	2			1	2	2	2	3	4	3	4	6	7	13	4	13	11		80
V02.4	DIPH. CARRIERS			1			1																						2
008.0	E. COLI 0157					1	2																	1					4
007.1	GIARDIA LAMBLIA				2									1				1						1					5
041.59	HAEM. INFLUENZAE (non-B)												1																1
070.1	HEPATITIS A					1					1																		2
070.3	HEPATITIS B											1																	1
070.51	HEPATITIS C											1			3	3	6	2	3	3	7	1					1	2	32
487.1A	INFLUENZA A																	1				1		1	1	2			6
487.1B	INFLUENZA B																1				1			2	1	4	1		10
B95.6	MRSA	5	3	6	9	4	2	8	3	1	1	7	9	9	3	8	8	5	9	10	7	6	4	11	10	12	15		175
003.0	SALMONELLA			3			1				1	1		2	1	1	1	3			3			1		1			19
004	SHIGELLOSIS																				1								1
038.2	STREP.PNEUMOCOCCAL SEPTIC		1		1											2		1	1	1	1	2	1				1		12
127.2	STRONGYLOIDIASIS																				1								1
013	TUBERCULOSIS - NON-RESP.																		1				1						2
011	TUBERCULOSIS - RESP.										1		2			1			1				1				1		7
002.0	TYPHOID											1																	1
B96.8	VANCOMYCIN RES. ENTER.									1								1	1	1	1		1	1	1		1		9
		6	5	10	12	7	6	8	3	4	7	11	13	13	11	19	22	18	20	19	27	16	15	32	17	32	31		386

SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR April 2008

ICD9	Disease/Infection	Winnipeg	Brandon	N.Eastman		S.Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	OOP	Missing	TOTAL
*Case Referred to:**				*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*				
006.9	AMEBIASIS	2	1																				3
116.0	BLASTOMYCOSIS	1																					1
008.43	CAMPYLOBACTER	3					1		1		2		3		1		1						12
558.2	CLOSTRIDIUM DIFFICILE	49	3		2		2		8		8		4				2	2					80
V02.4	DIPH. CARRIERS																	1	1				2
008.0	E. COLI 0157	1			1				1									1					4
007.1	GIARDIA LAMBLIA	3	1				1																5
041.59	HAEM. INFLUENZAE (non-B)																		1				1
070.1	HEPATITIS A	1	1																				2
070.3	HEPATITIS B	1																					1
070.51	HEPATITIS C	21		1	1			1	1	1	1				1		1	1	2				32
487.1A	INFLUENZA A	6																					6
487.1B	INFLUENZA B	8							2														10
B95.6	MRSA	67	5		3		2		7		7		5		4	2	10	38	24	1			175
003.0	SALMONELLA	9					2		2		1		1	1	1		1	1					19
004	SHIGELLOSIS	1																					1
038.2	STREP.PNEUMOCOCCAL SE PTIC	4			1		1				2							2	2				12
127.2	STRONGYLOIDIASIS	1																					1
013	TUBERCULOSIS - NON-RESP.	1																1					2
011	TUBERCULOSIS - RESP.	3										1						3					7
002.0	TYPHOID	1																					1
B96.8	VANCOMYCIN RES. ENTER.	6							1		1		1										9
		189	**11**	**1**	**8**		**9**	**1**	**23**	**1**	**22**	**1**	**14**	**1**	**7**	**2**	**15**	**50**	**30**	**1**			**386**

* F=Federal Jurisdiction (includes First Nations and Inuit Health Branch and Stony Mountain Penitentiary) P=Provincial Jurisdiction

STD Infection Summary Report - April 2008

	MONTHLY TOTAL		YEAR-TO-DATE	
DISEASE/INFECTION	2007	2008	2007	2008
All Chlamydia Infections	354	613	1523	2389
All Gonorrhea Infections (including PRNG)	103	157	407	526
All Syphilis Infections	7	2	15	10
Gonorrhea & Chlamydia Co-infections	40	62	153	239
Penicillin Resistant Gonorrhea Infections (PRNG)				
Suspect PRNG				
HIV	6	10	32	27

Total Number of STD Cases by Age and Gender - April 2008

	<1		1 - 4		5 - 9		10 - 14		15 - 19		20 - 24		25 - 29		30 - 39		40 - 49		50 - 59		60 - 69		70 - 79		80 +		Missing	Total
Disease Name	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	age/gendr	
Chlamydia Only Cases							9		138	37	114	68	48	36	43	23	14	10	6	4							1	551
Gonorrhea Only Cases									21	4	14	16	7	7	10	7	1	3	1	3		1						95
Syphilis Only Cases											1			1														2
GC and CT Cases									15	9	11	3	7	7	2	4		2	1			1						62
							9		174	50	140	87	62	51	55	34	15	15	8	7		2						710
HIV									1			2	1	1	1	1		2	1									10

Regional STD Distribution - April 2008

Disease/Infection	Winnipeg	Brandon	N.Eastman		S.Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	OOP	Missing	TOTAL
*Case Referred to:**			*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*				
All Chlamydia Infections	313	15	9	8	1	7	3	24	1	29		26	6	17	7	17	91	35		1	3	613
All Gonorrhea Infections	82		3							6		5		4	1	3	40	12		1		157
All Syphilis Infections	1															1						2
GC and CT Infections	34									3		2		1	1	1	18	2				62

* F=Federal Jurisdiction (includes First Nations and Inuit Health Branch and Stony Mountain Penitentiary) P=Provincial Jurisdiction